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... uniform **geometry** and regular connectivityy, as illustrated in ... The research into **adaptive mesh** refinement simulation ... a form of spatial **mesh** refinement directly ...
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... Free-Form *~ Deformation Parameters With **Adaptive** Mpdel^Refinement ... representing a standard parametric **geometry** and topology ... The **template** polygonal **mesh** is then ...
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... In particular, it can use curvilinear grids, **adaptive mesh** refinement, and the composite ... (vertices and element connectivity) Tetrahedral **mesh** ... **Geometry** ...
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... pendently of the intrinsic/embedding dimension of the **geometric** object ... **Mesh** Refinement ... have been designed in the meshing community for the **adaptive** refinement of ...
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... a constructive **model** (eg, parameters of a **primitive** function in ... are more than hundreds of **geometric** elements in ... to associate a deformable polygonal **mesh** with a ...
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AF Frangi, WJ Niessen, MA Viergever - IEEE Transactions on **Medical** Imaging, 2001 - tecn.upf.es
... planning of surgical interventions, and for **mesh** generation for ... IEEE TRANSACTIONS ON **MEDICAL** IMAGING, VOL ... LV while keeping the intrinsic **geometrical** meaning of ...
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... Each segment is a **geometric primitive** connected by joints which have ... principle of the neural network allows **adaptive** error mini ... **MESH** ANIMATED **MESH** FINAL **MESH** Fig ...
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... operations (these typically happen near important **geometric** or topological ... until we reach the final **adaptive** remesh M ... be generated for this sub- **mesh**, with the ...

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H Holten-Lund, M Hvidtfeldt, J Madsen, S Pedersen - Proceedings of the fifth symposium on Virtual reality ..., 2000 - portal.acm.org
... Rotor.set_fraction ROUTE Rotor.value_changed TO **Femur**.set_rotation ... The **3D** graphics renderer used by the VRML ... The renderer uses a **mesh** representation where the ...
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... method was applied to a **3D** point set ... **model** was used to extract certain significant **femur** features from ... de- termined by the above-mentioned **mesh-model** fitting ap ...
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... gener- ated through the triangular **mesh** construction process ... **model** is obtained from **3D** reconstruction of ... An upper **femur model** derived from reconstructed NURBS ...
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... resentation of **3D** shapes may be described in three steps ... of detail while still showing the gross shape of the **femur**. ... 3 Hexahedral Finite Element **Mesh** Generation ...
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BJ Fregly - Citeseer
... base SIMM bone files that represent the **3D** bone and muscle surfaces as polygon **meshes** ... anatomical landmarks used for establishing the **femur** reference frame ...
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... of several sample data sets, including a molar and a **femur**. ... exist for manipulating polygonal **meshes** in real-time ... a scheme for the reconstruction of **3D** data from ...
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AP Mangan, RT Whitaker - IEEE Transactions on Visualization and Computer Graphics, 1999 - scilib.kiev.ua
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... to be applied onto the compact triangulated **mesh**. ... texture filtering, independently of the **3D** shape compression ... order to define a usable texture- mapped **model**. ...
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... 5] developed a spring-mass, adaptive-size **mesh model**, Cohen and ... of points on the **model** relative to the **model** frame ... e can represent either a set of **3D** points in ...
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... a multiscale medial means for modeling and rendering **3D** solid geometry ... medial atoms, which is interpolated from the **model** formed by a net, ie, a **mesh** or chain ...
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... relative to an inertial frame of reference @ in **3D** space are ... of points on the **model** relative to the **model** frame ... where e is a **geometric primitive** e(u; ao(u), .*(U ...
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... which better captures the geometry of the **mesh surface**. ... be neccesary to include this **partition** information as ... to perform lossy compression of **3D mesh** data is ...
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... **Mesh partitioning** and parts extraction have become key ingredients for ... around a specific part of the **mesh**, and this ... the initial position of a **3D** geometric snake ...
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... In **3D** shape re- trieval, a decomposition graph serves as ... distances to all pairs of faces in the **mesh**. ... For instance, we wish to **partition** the objects in Figure ...
Cited by 248 - Related articles - Web Search - BL Direct - All 13 versions

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... brain, we modeled the major sulci in **3D** as deep ... were modeled using a multiresolution parametric **mesh** approach ... into the brain to form a natural **partition** of its ...
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... it simply corresponds to the **part** of the **...** factors which mainly differentiate this **decomposition** from simplification **...** with respect to the geometry of the **3D mesh**. **...**
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K Wu - 1996 - cim.mcgill.ca
... APPENDIX D. **Part Decomposition** : : : : : **...** 1.1 **Part**-based description of a **3D** object **...** 6.15 Results of **part** segmentation **...**
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... 2.3 **Decomposition**-based method **...** measure shape variation, in order to identify a meaningful **part**. **...** procedure detects where the skeletal points of a **3D** model can **...**
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... We achieved efficient computation by **decomposing** the body into **... surface** to be input by either **3D** digitizing or **...** Every **part** is composed of mass blocks, such as **...**
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TJ Tautges - Int. J. Numer. Meth. Engng, 2001 - Citeseer
... solution step, which is ecient in **part** because it **...** a **surface mesh** is extruded into **3D** elements **...** cent of the volumes resulting from geometry **decomposition**, and the **...**
Cited by 20 - Related articles - View as HTML - Web Search - BL Direct - All 8 versions

Feature based hex meshing methodology: feature recognition and volume **decomposition**- ▶ wisc.edu [PDF]
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... In **3D**, the problem of **decomposition** and meshing becomes **...** 9(a), the lower portion of the **part** can be **...** a good quality **mesh**; however, this **decomposition** leaves an **...**
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E Ceccarelli, A Del Bimbo, P Pala - IEEE International Conference on Multimedia and Expo, 2005. ..., 2005 - ieeexplore.ieee.org
... into syn- chronized groups reflects a **decomposition** of the original **mesh** into homogeneous **parts**. **...** objects, represented in the form of **3D meshes**; finally, in **...**
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In a variety of practical situations such as reverse engineering of boundary representation from depth maps of scanned objects, range data analysis, model-based recognition and algebraic surface design, there is a need to ...
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Whole-body modelling of people from multiview images to populate virtual worlds
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In this paper a new technique is intro- duced for automatically building recognis- able, moving 3D models of individual peo- ple. A set of multiview colour images of a person is captured from the front, sides and back by one ...
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